Coastal Engineering Research Board Meeting
San Francisco, CA



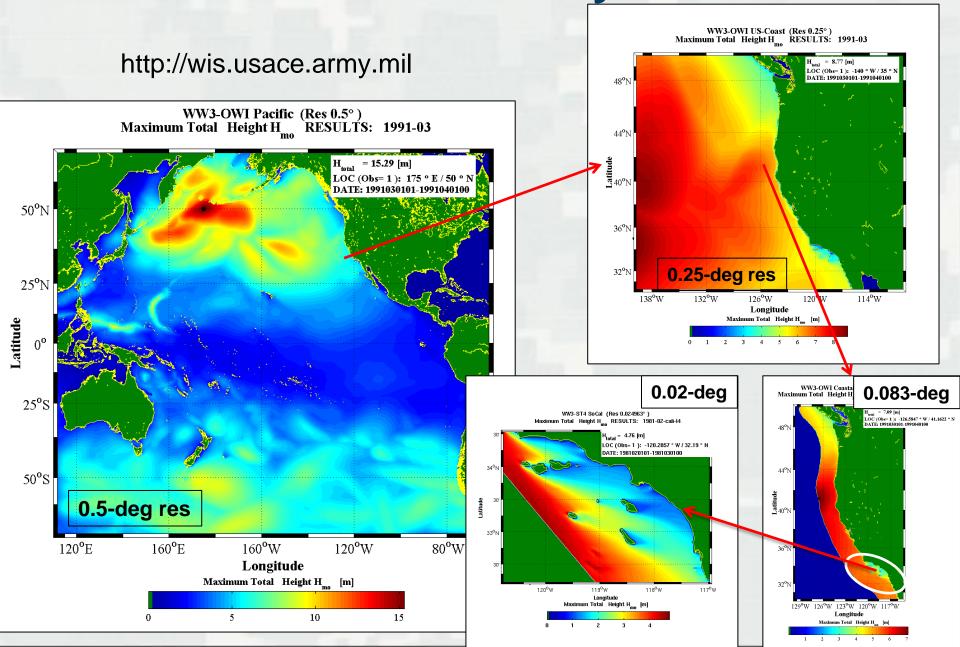
Research and Development for Sustainable West Coast Projects

Bill Curtis September 9, 2014

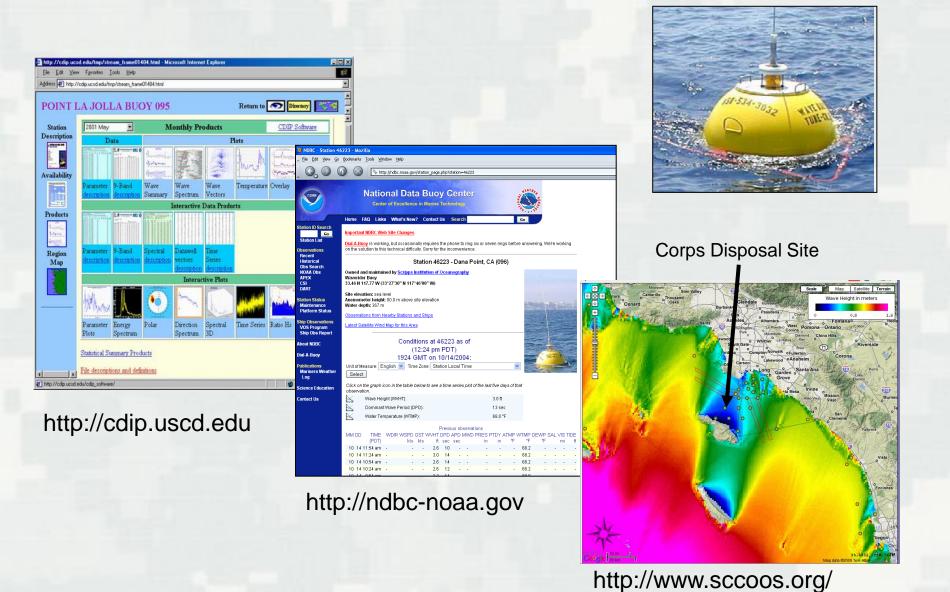




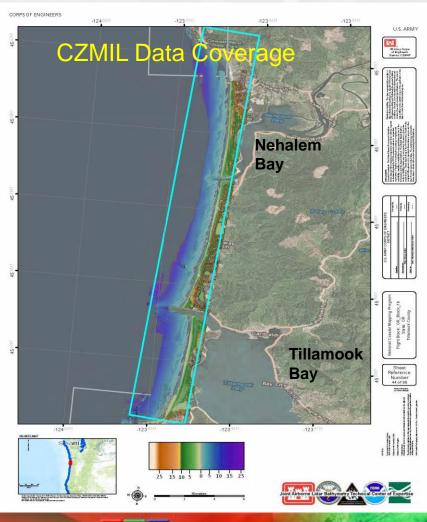
Wave Information Study: Pacific v.3



Coastal Data Information Program

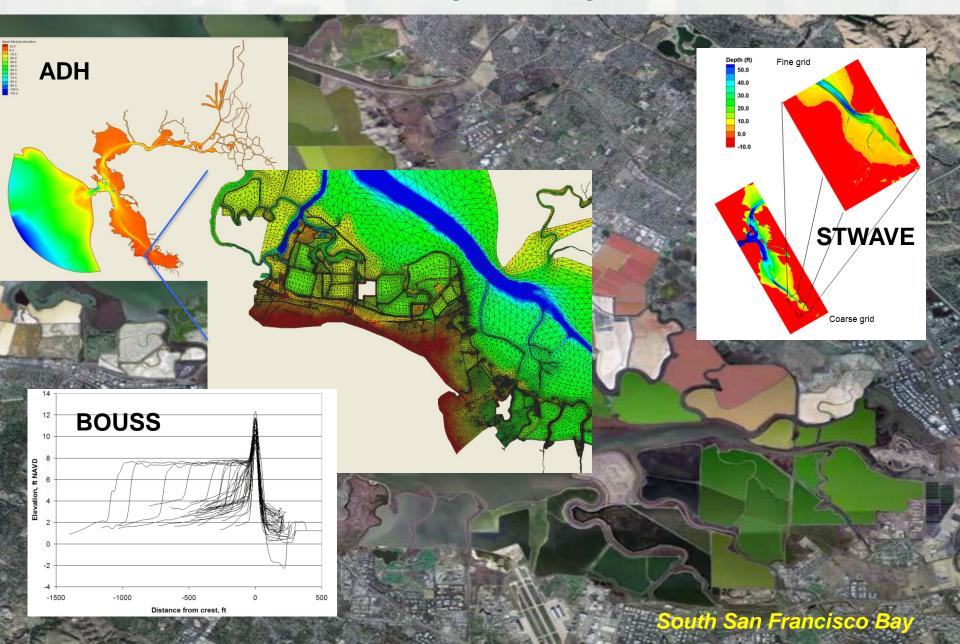


National Coastal Mapping Program 2014 Survey Season

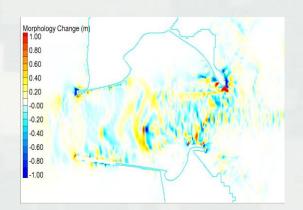




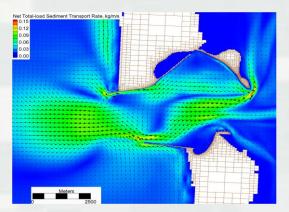
Estuarine Hydrodynamics



Inlet and Harbor System Management



Grays Harbor, WA



Water Depth (m)

1000

80.0

40.0

40.0

40.0

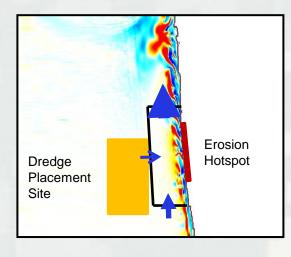
1000

Ebb Tidal Delta

Dredged Material Placement Site

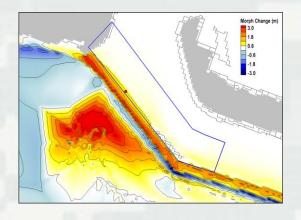
Material Placement Site

Ocean Beach, CA





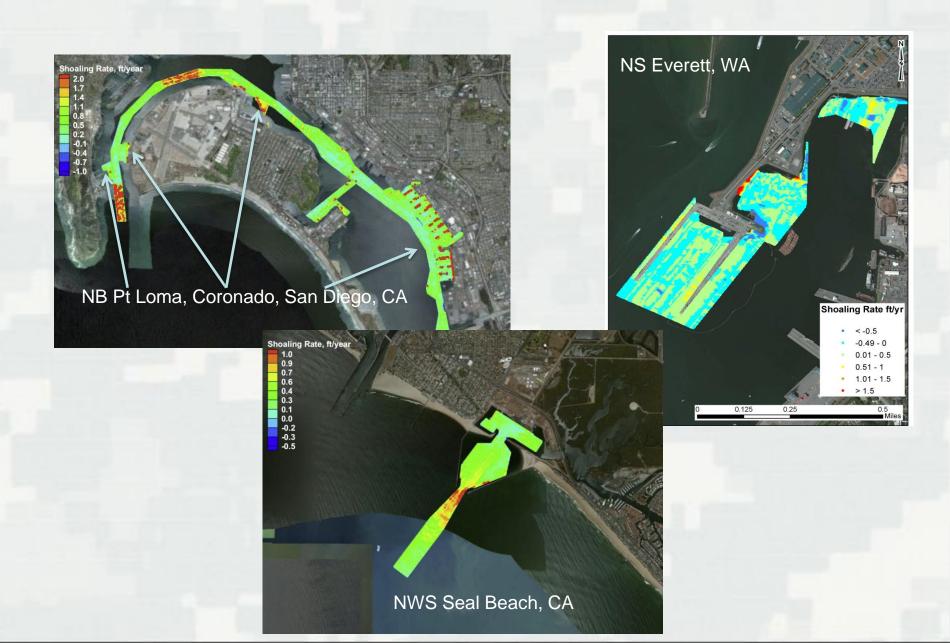
Dana Point, CA



CMS ADCIRC MPFATE

ADH PTM BOUSS LTFATE

USN Fleet Concentration Area Shoaling



Asset Management Dredge Work Package Formulation

Target

Elevation (ft)

44

42

41

40

39

37

Time until Dredging Takes place (Years)

1.5

11.368

11.368

11.368

15.868

21.821

21.821

21.821

3

4.130

4.130

4.673

5.419

5.747

4.982

5.329

6.166

3.5

3.599

3.599

3.599

3.965

4.439

4.558

3.781

3.899

4.286

2.5

5.040

5.040

5.040

5.945

7.314

8.168

7.658

8.654

10.924

6.832

6.832

6.832

8.649

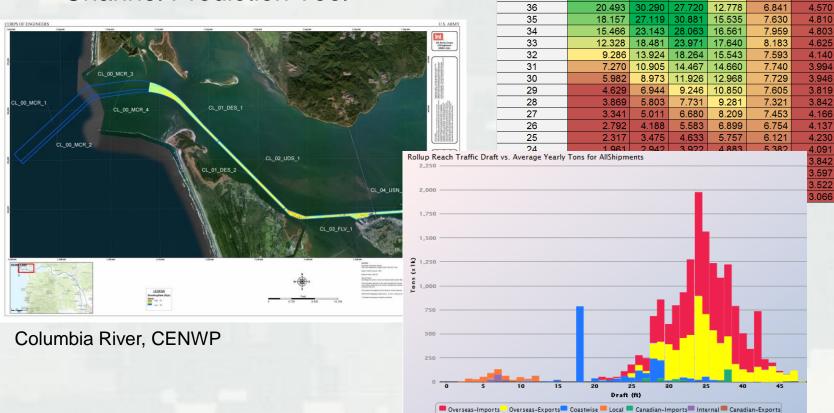
11.954

14.437

15.580

R&D Product Integration:

- e-Hydro
- Corps Shoaling Analysis Tool
- Channel Prediction Tool



Wetland Sediment Processes



Acoustic Doppler Velocimeter



Instrument Platform & RTU



Bentonite/Feldspar Plot



Hamilton Wetland Restoration, San Pablo Bay, CA

Invasive Sea Grass Impacts: Z. japonica





Manning et al. (www.coastal.ca.gov)

Thank You

